

GridSearch Assignment:

R2 score:

Algorithm	R2_score	Best params
SVR	0.8814131416941169	{'C': 10, 'gamma': 'auto', 'kernel': 'rbf'}:
Decision Tree	0.8549334830978529	{'criterion': 'absolute_error', 'max_depth': 5, 'min_samples_leaf': 1, 'min_samples_split': 2, 'splitter': 'best'}
Random Forest	0.8813349664835242	{'criterion': 'poisson', 'max_features': 'log2', 'min_samples_split': 10}

Conclusion: As using GridSearch CV, and standardising the input and output of Train,test set in SVR model, we get the best R2\_score value.

Thus I have created the deployment file using SVR model.